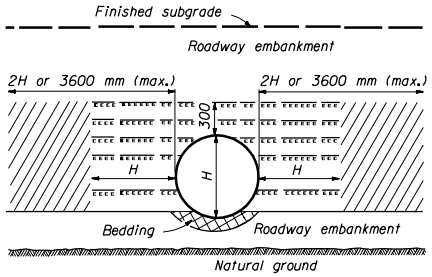
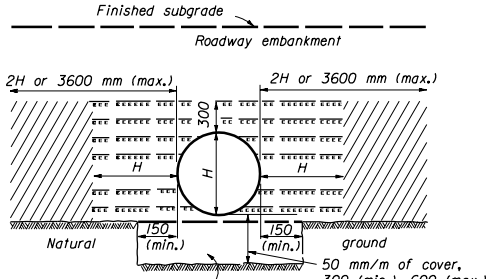
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS

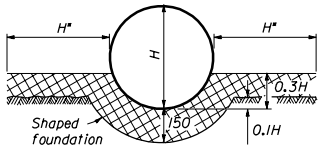


ABOVE NATURAL GROUND



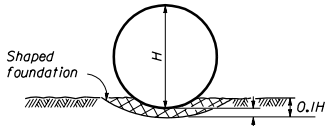
Remove unyielding material and replace with selected fine compressible material. Lightly compact in layers not over 150 mm in uncompacted depth.

ON UNYIELDING MATERIAL



*Reduce to 450 mm for trench excavations.

CLASS B BEDDING



25 mm for 13 mm corrugations
50 mm for 25 mm corrugations

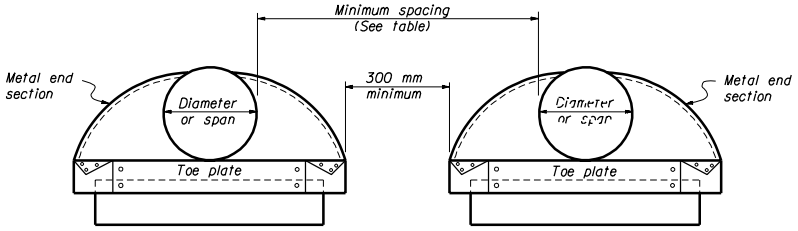
CLASS C BEDDING

NOTE:

1. Dimensions not labeled are in millimeters.
2. When directed, camber pipe culverts upward from a chord through the inlet and outlet inverts an ordinate amount equal to 1% of the pipe length. Develop camber on a parabolic curve. If the midpoint elevation on the parabolic curve as designed exceeds the elevation of the inlet invert, reduce the amount of camber or increase the pipe culvert gradient.
3. H equals the diameter of all round pipe culverts or the rise dimension of all pipe arch culverts.
4. Bed pipe culverts 1200 mm and larger in diameter and pipe arch culverts 960 mm and greater in rise in Class B bedding. Bed smaller pipe culverts in Class B or C bedding.

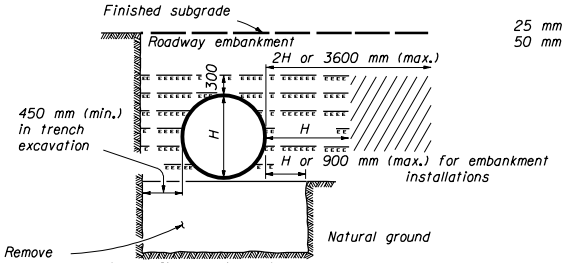
MINIMUM SPACING	
DIAMETER or SPAN	SPACING
UP to 1200	610
1200 and UP	0.5 Diameter or span or 900 whichever is less

MULTIPLE PIPE INSTALLATION



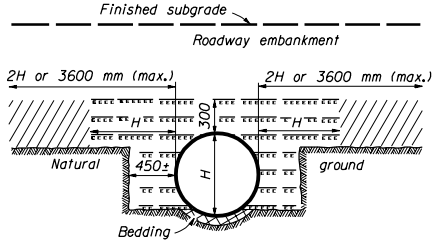
ELEVATION ELEVATION

ON NATURAL GROUND

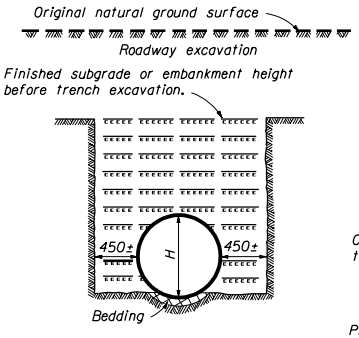


Remove unstable material to firm bearing soil and replace with approved granular foundation fill material properly compacted.

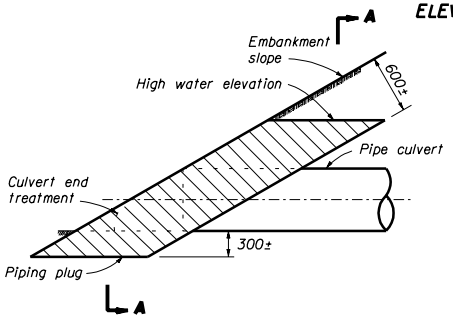
ON UNSTABLE MATERIAL

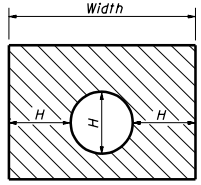


ABOVE AND BELOW NATURAL GROUND



BELOW NATURAL GROUND OR TRENCH EXCAVATION IN EMBANKMENT





SECTION A-A

Construct piping plug of impermeable backfill material at the pipe culvert inlet where granular material is used for backfill. Width may be adjusted to tie into impervious material.

PIPING PLUG

NO SCALE

Bedding material

Embankment material placed in layers not exceeding 150 mm compacted depth.

Approved granular material or fine compactable soil placed in layers not exceeding 150 mm compacted depth.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY OFFICE

METRIC STANDARD

METAL AND PLASTIC PIPE CULVERT BEDDING

STANDARD APPROVED FOR USE 03/96
REVISED: 12/98

STANDARD M602-3

MS160203.DGN

$$$$$DGNSPEC$$$$$

$$$$$SYTIME$$$$$